

Appl. No. 10/618,222  
Amdt. dated June 03, 2005  
Reply to Notice of Non-Compliant Amendment of May 05, 2005

**Amendments to the Drawings:**

The attached sheets of drawings include changes to Fig. 2, Fig. 3 and Fig. 4. These 3 Sheets, which include Figures 2-4, replace the original sheets including Figures 2-4, previously misrepresent values of source levels and distances have been replaced by correct.

Attachment:      Replacement Sheets – 3  
                        Annotated Sheets Showing Changes – 3

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**REMARKS/ARGUMENTS**

In the specification, the new paragraphs [0039.1], [0039.2], [0039.3] and [0039.4] added after paragraph [0039] discusses in general terms the features taken from Examples 1-4. (Figures 1-4)

In amended Figures 2-4, the previously misrepresent values of source levels and distances (on coordinates) have been replaced by correct.

Claims 8-9 remain in this application. The examiner has acknowledged that claims 8 and 9 are directed to allowable subject matter. Claims 1-7 have been canceled. Claim 10 has been withdrawn without prejudice.

In view of the examiner's earlier restriction requirement, applicant retains the right to present claims 11-16 as new in a divisional application. This includes the situation where new claim 11 is modified form of the claim 1.

Contents of our patent application are based on exact sciences. Usually it appears complicated for comprehension. Co-authors of this application, noted scientists in their spheres of knowledge (physical chemistry, radio-electronics and applied mechanics), at the present moment are not in a financial situation to resort to the help of the patent lawyers. Undoubtedly, these factors complicated the job of the examiner.

In order to facilitate a perception of the basic moments of the invention and in a reply to **Office Action Summary** co-authors have sent to the examiner the subsidiary

materials. In a reply we have got the Notice of Non-Compliant Amendment (37 CFR 1.121). **Formally, sound decision, but only formally.**

We assert, that the prototype patent No. 4,922,468 to J.K. Menezes (dated May 1, 1990) includes only well formulated conditions of a problem (statement of a problem), but there is no of the practical solution of a problem. Physical antinomies not been eliminated! We have made it!

Good solutions of an inventive problem are usually obtained through the elimination of physical antinomies, while poor solutions still have these antinomies incorporated. Elimination of physical antinomies requires their deep understanding in the context of the available technology and the rules of development of engineering systems. It would be difficult for an average inventor to consider all development rules to find, for his particular problem, the most appropriate way to eliminate antinomies. A knowledge of the physical sciences is very important from an inventor's viewpoint. Unfortunately, the average inventor with an engineering background has rather limited understanding of fundamental sciences. In the best case, he knows 5-7 physical effects and phenomena, which can be used in solving inventive problems. Our experienced examiner, **mister D.T. PIHULIC**, undoubtedly, knows it.

I have had more 100 patents in the former USSR. American astronauts fly on Russian Orbital Scientific Station and work there during several months. I am one of the principal elaborators of the life-support systems of astronauts on such orbital stations and spaceships.

**DATE MAILED:** of the Notice of Non-Compliant Amendment is shown, as 05.05.2005. I got the letter in Canada only 18.05.2005.

In the such situation, in order to defend our basic claims, I took out "**the cancel-and-redraft approach**" to Amendments to the claims according to the Office of Patent Legal Administration (OPLA) of the US patent office.

We had 10 claims pending, now we have 8 claims pending. I don't think we owe any extra claims fees but if it will be necessary, we will pay.

Applicant respectfully request that a timely Notice of Allowance be issued in this case.

Respectfully submitted

**Leonid Pavlov**  
Doctor of Sciences, Professor,  
Former Expert of UNESCO  
[United Nations Educational,  
Scientific and Cultural Organization]

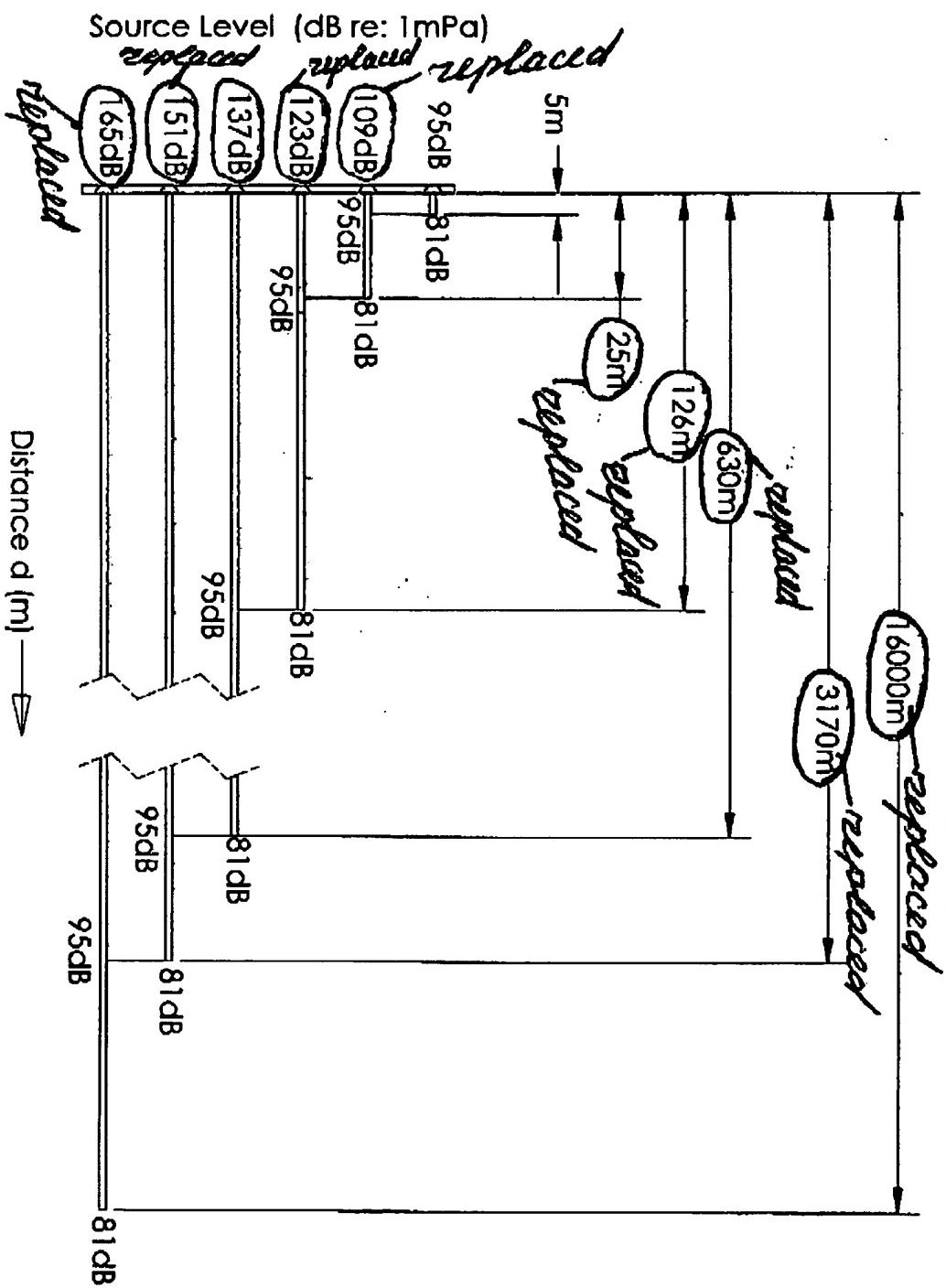
Canada. Tel: 905-835-7988  
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Attachments

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FIG. 2

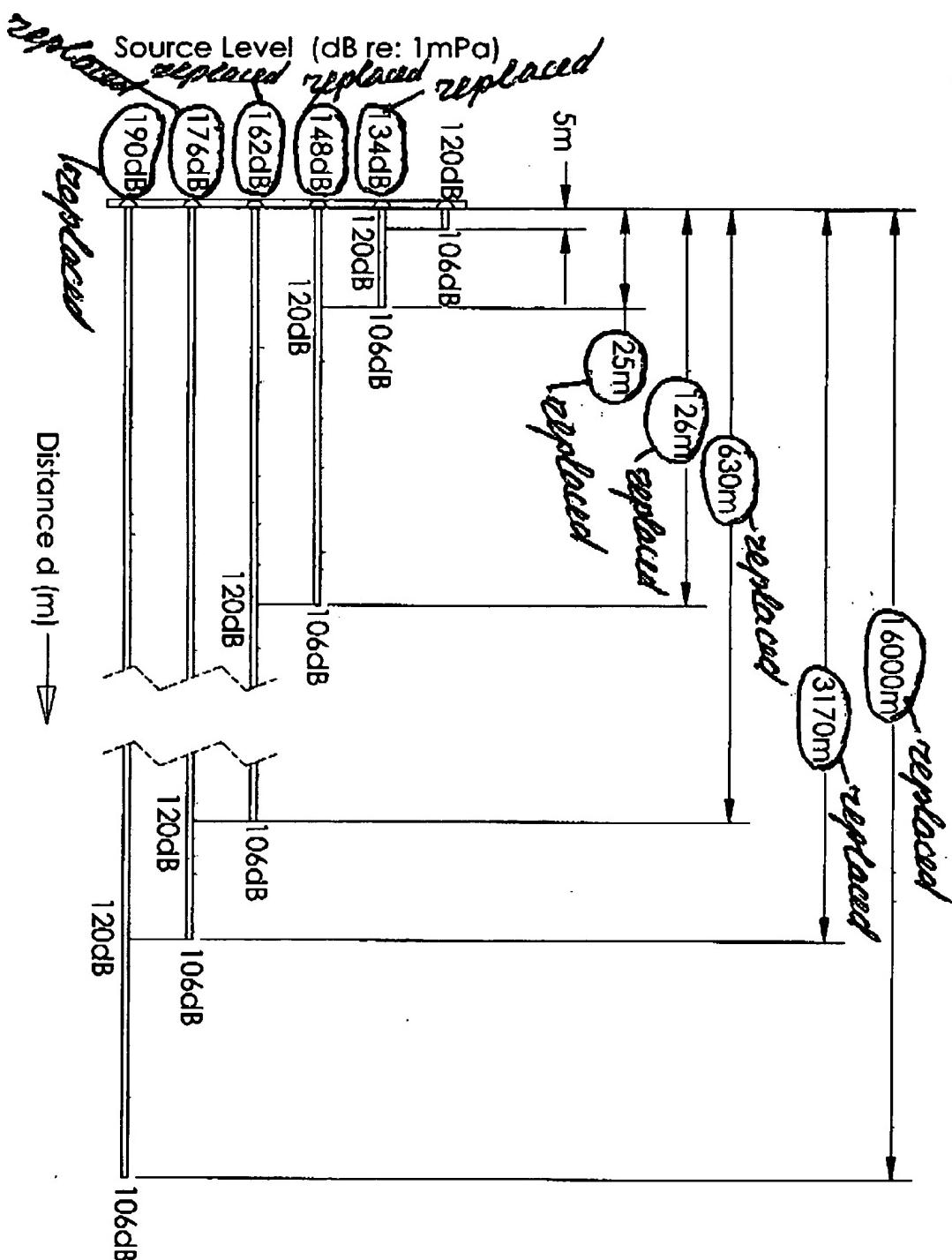
## Annotated Sheet 1 Showing Changes



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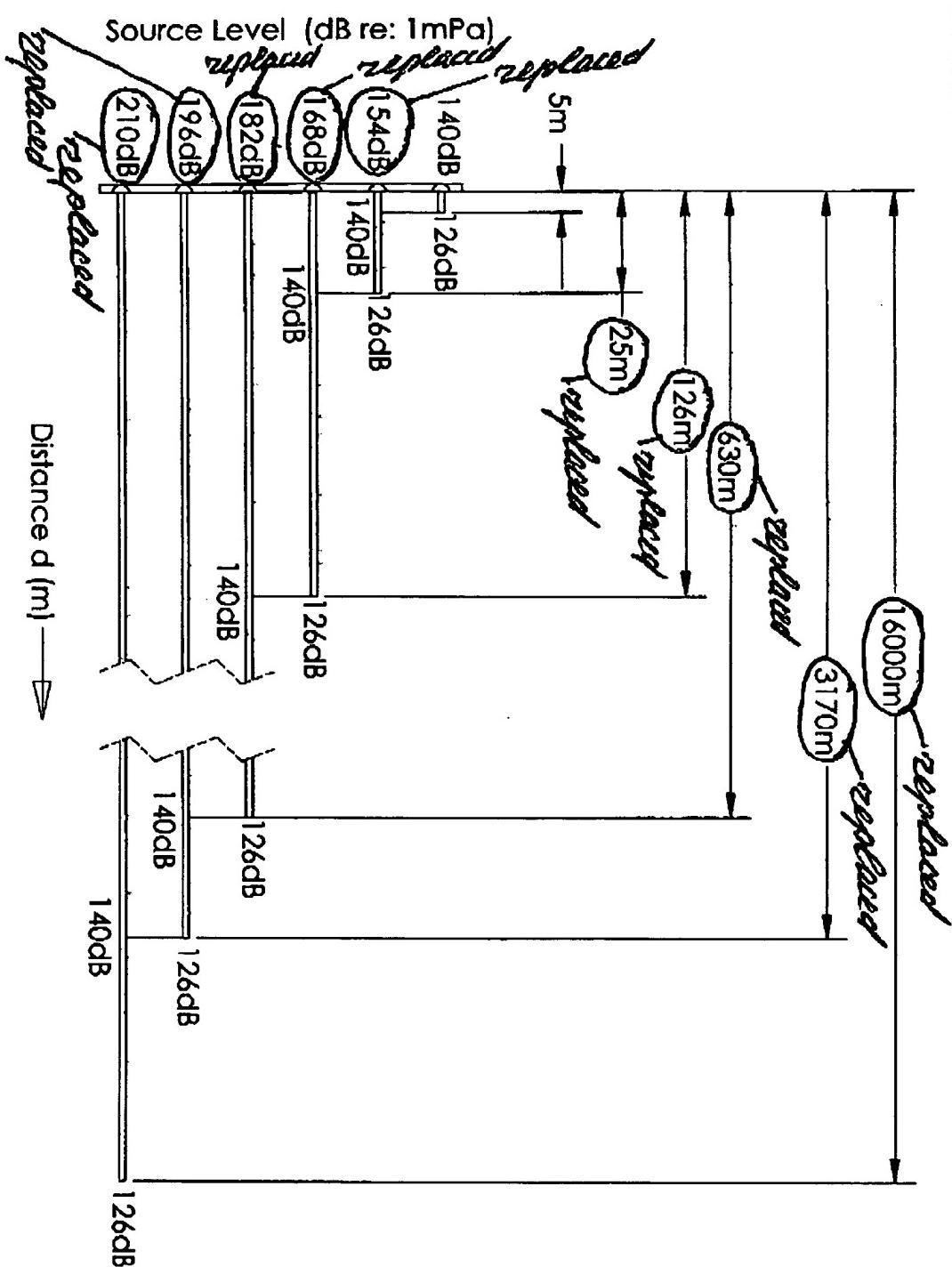
## Annotated Sheet 2 Showing Changes



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E.G.  
4

Annotated Sheet 3 Showing Changes



We had 10 claims pending, now we have 8 claims pending. I don't think we owe any extra claims fees but if it will be necessary, we will pay.

Applicant respectfully request that a timely Notice of Allowance be issued in this case.

Respectfully submitted

  
Leonid Pavlov  
Doctor of Sciences, Professor,  
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Attachments